

SOV/35-59-8-6344

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959,
Nr 8, p 35

AUTHORS: Troitskiy, V.S., Zelinskaya, M.R., Rakhlin, V.L., Bobrik, V.T. ✓

TITLE: Results of Observations of the Solar Radio-Frequency Emission
at Wave-lengths of 3.2 and 10 cm during the Total Sun's Eclipse
on February 25, 1952, and June 30, 1954

PERIODICAL: V sb.: Polnyye solnechn. zatmeniya 25 fevr. 1952 i 30 iyunya
1954, Moscow, AS USSR, 1958, p 330

ABSTRACT: See RZhAstr, 1957, Nr 1, p 489.

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67544

3.1700

SOV/141-2-3-22/26

AUTHORS: Zelinskaya, M.R., Troitskiy, V.S. and Fedoseyev, L.N.

TITLE: Radio Emission of the Moon on 1.63 cm during 1956-1957

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika,
1959, Vol 2, Nr 3, pp 506 - 507 (USSR)

ABSTRACT: The authors have measured the effective temperature of the central part of the lunar disc as a function of its phase. The results obtained can be approximated by the expression:

$$T_{\text{J}} = 224^{\circ} - 36^{\circ} \cos (\Omega t - 40^{\circ}) \quad (1)$$

(in the case of new moon $\Omega T = 0$) while the corresponding theoretical function (Ref 2) is:

$$T_{\text{J}} = 204 - 133^{\circ} (1 + 2\delta + 2\delta^2)^{-1/2} \cos (\Omega t - \zeta) \quad (2)$$

where $\delta = \beta/\kappa$ is the ratio of the penetration of the electromagnetic wave $1/\kappa$ to the depth of penetration of the thermal wave $1/\beta$ (β and κ are the attenuations)

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Radio Emission of the Moon on 1.63 cm during 1956-1957 ^{SOV/141-2-3-22/26}

of the thermal and electromagnetic waves in the lunar rock, which depend on the physical and chemical characteristics of the material on the lunar surface) and

$$\operatorname{tg} \xi = \delta / (1 - \delta) \quad (3) .$$

The magnitude of the constant component agrees with the theoretical constant component to within the limits of experimental error. The value of δ , calculated from Eqs (1) and (2) turned out to be 2.3 ± 0.2 . The value of ξ calculated from Eq (3) is 35° , while the experimental value is $40 \pm 7^\circ$. Table 1 gives a comparison of results obtained on other wavelengths. Using the results obtained for wavelengths of 1.25, 1.63 and 3.2 cm. it is possible to derive the interesting relation:

$$\delta / \lambda \approx \text{const.} \quad (4) .$$

It is known that such a relation is a result of the fact

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Radio Emission of the Moon on 1.63 cm during 1956-1957

that solid dielectrics have a constant loss angle almost in the entire cm region, i.e.

$$\operatorname{tg} \Delta = 4\pi\sigma(\omega)/\varepsilon\omega \approx \text{const.} \quad (5)$$

where $\sigma(\omega)$ is the equivalent electrical conductivity.

Using the above value of δ and of the thermal conductivity

($k = 2.5 \times 10^{-6}$) obtained from optical data (Ref 8), it is easy to show that $\kappa = 0.2 \text{ cm}^{-1}$ and

$d = 7.9 \times 10^8 \text{ CGSE}$. This gives the loss angle for lunar rocks as about 2° and the depths of penetration at $\lambda = 1.63 \text{ cm}$ as $1/\kappa = 5 \text{ cm}$ and $1/\beta = 2.2 \text{ cm}$. Compared with terrestrial rocks, this value of the conductivity is relatively large but not impossible for rocks with a large content of potassium, sodium and iron oxides. For wavelengths of 8.6, 8 and 1.5 mm, the result given by Eq (4) does not apparently hold as well. Near $\lambda = 8 \text{ mm}$, σ/λ shows a quasi-resonance behaviour. If this is in fact

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the case, then one must admit the existence of a reduction in κ in lunar rocks for $\lambda = 8$ mm, which is difficult to explain. On the other hand, it might be assumed that the thermal conductivity of the upper layers of the lunar soil (which is mainly responsible for the 8 mm radiation) is lower than the thermal conductivity at greater depths. A similar result may be obtained from the fact that the lag of the radio emission behind the phase of heating on $\lambda = 1.63$ cm turned out to be somewhat larger than required by the single-layer model of the lunar soil, and is in better agreement with the two-layer model. However, available data are not sufficiently accurate for a clear choice between the two models. It is necessary to have higher resolution data in the mm and the cm ranges. There are 1 table and 8 references, 4 of which are English and 4 Soviet. (This is an abridged translation.)

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Radio Emission of the Moon on 1.63 cm during 1956-1957 SOY141-2-3-22/26

ASSOCIATION: Issledovatel'skiy radiofizicheskiy institut pri
Gor'kovskom universitete (Radiophysics Research Institute
of Gor'kiy University)

SUBMITTED: February 18, 1959

Card 5/5

L 01815-67 EWT(m)/EWP(j) RM

ACC NR: AP6035441

SOURCE CODE: UR/0062/66/000/001/0116/0121

AUTHOR: Meshcheryakov, A. P. and Erzyutova, Ye. I., Institute of Organic Chemistry
im. N. D. Zelinskiy, AN SSSR (Institut organicheskoy khimii AN SSSR) 32

TITLE: Free-radical method of synthesis of hydrocarbons with several quaternary
carbon atoms in the molecule B

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 1, 1966, 116-121

TOPIC TAGS: free radical, synthetic hydrocarbon

ABSTRACT: When di-ter-butyl peroxide is decomposed in hydrocarbons, several parallel reactions occur: 1) homolytic breakdown of the peroxide at the O-O bond with the formation of a butoxy-radical ($\text{CH}_3)_3\text{CO}$; 2) removal by the butoxy-radical of labile H-atoms from the solvent molecule with the formation of free radicals; 3) reactions of free radicals formed from the solvent of recombination of the hydrocarbons, disproportionation and polymerization. The more stable the radicals formed, the more they are capable of recombining to form dimers. Experimental data shows that the stability of free radicals rises with an increase in the number of substituents at the atom with the non-

paired electron and the greater the branched character of these substituents. Aryl substituents increase the stability of free radicals more than do alkyl. The authors used trialkyl- and arylalkylsubstituted methane as solvents, which have the
Card 1/2 0922 0045

L 01815-67

ACC NR: AP6035641

least labile H-atom at the tertiary carbon. Orig. art. has: 1 table. [JPRS: 37,177]⁹

SUB CODE: 07 / SUBM DATE: 11 Sep 63 / ORIG REF: 005 / OTH REF: 006

Card 2/2 Ev

ZELINSKAYA, N.

In memory of academician Nikolai Dmitrievich Zelinskii. Khim.
v shkole 13 no.4:75-77 J1-Ag '58. (MIRA 11:6)
(Zelinskii, Nikolai Dmitrievich, 1893-1950)

ZELINSKAYA, P.M.

33508

Izmeneniya V Kishechnike Pri Alimentarnoy Distrofii. (Klinikoanatomd-Bakteriol. Paralleli).
Uchen. Zapiski (Chernovits. Gos. Med. In-T), T. 1, 1949, c. 54-59

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, Maskva, 1949

ZELINSKAYA, T.		PRINCIPLES AND PROPERTIES INDEX	
<p>*The Promotion of Nickel Layers by Oxygen. K. Akhmedova and T. Zelinskaya (<i>Acta Physicochimica U.R.S.S.</i>, 1937, 7, (1), 121-130).—[In English. The catalytic action of nickel in effecting hydrogenation of ethylene is increased by oxygen; this promoting action is apparently attributable to a breaking up of the structure of the metal lattice.—J. S. G. T.]</p>			
<p>U.S. METALLURGICAL LITERATURE CLASSIFICATION</p>			
<p>100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990</p>		<p>100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990</p>	

1ST AND 2ND SECTIONS																		PROCESS AND PROPERTIES INDEX																		3RD AND 4TH SECTIONS																	
<p><i>BC</i></p> <p>ZELINSKAYA, T.</p>																		<p><i>a-1</i></p>																																			
<p>Promotion of metallic nickel layers by oxygen. K. ARLENKOVA and T. ZELINSKAYA (J. Phys. Chem. Russ., 1937, 9, 282-283).—The velocity v of hydro- genation of O_2 has been investigated on metallic Ni layers obtained by evaporation in an O_2 atm. and containing varying quantities of sorbed gas. $v =$ 0 at $[O_2] = 0$ and increases to a sharp max. at $[O_2] =$ 8.3×10^{18} mole. per Ni layer formed during 1 min. evaporation. The effect is attributed to a disturbance of the Ni lattice in the moment of its formation.</p>																																																					
E. R.																																																					
<p>ASB-15A METALLURGICAL LITERATURE CLASSIFICATION</p>																																																					
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<p>GROUPS A-J</p>																		<p>GROUPS K-T</p>																		<p>GROUPS U-Z</p>																	
<p>A B C D E F G H I J</p>																		<p>K L M N O P Q R S T</p>																		<p>U V W X Y Z</p>																	

KLYUSHNIKOV, M.M. [Kliushnykov, M.M.]; ZELINSKAYA, V.A. [Zelins'ka, V.O.]

Volume of the Kiev and Kharkov series in the boundaries of the
Ukrainian Crystalline Shield. Dop. AN URSR no.6:808-811 #63
(MIRA 17:7)

1. Institut geologicheskikh nauk AN UkrSSR. Predstavleno akademikom AN UkrSSR V.G.Bondarchukom [Bondarchuk, V.H.].

TSYMBAL, S.M.; ZELINSKAYA, V.A. [Zelins'ka, V.O.]; SOROCCHAN, Ye.A.
[Sorochan, O.A.]

New find of fauna in the sandy sediments of the Poltavskaya
series. Geol. zhur. 25 no.3:115-117 '65. (MIRA 18:11)

1. Institut geologicheskikh nauk AN UkrSSR.

ZELINSKAYA, V.A. [Zelins'ka, V.O.]

Mollusks of Middle Eocene sediments in the Bug Valley. Geol.
zhur. 23 no.4:99-105'63 (MIRA 17:7)

1. Institut geologicheskikh nauk AN UkrSSR.

ZELINSKAYA, V. A.

Brachiopoda from the Upper Eocene of the Ukraine. Paleont. zhur.
no.2:106-111 '62. (MIRA 15:10)

1. Institut geologicheskikh nauk AN UkrSSR, Kiyev.

(Ukraine—Brachiopoda, Fossil)

ZELINSKAYA, V.A. [Zelins'ka, V.O.]

Some representatives of Heterodonta and Neotaxodonta from Ukrainian
Eocene sediments. Geol. zhur. 20 no.2:16-26 '60. (MIRA 14:5)
(Ukraine--Lamellibranchiata, Fossil)

ZELINSKAYA, V.A. [Zelins'ka, V.O.]

All-Union conference of the Permanent Stratigraphic Commission
on the Paleogene System. Geol. zhur. 20 no. 5:111-113 '60.

(MIRA 14:1)

(Geology, Stratigraphic)

ZELINSKAYA, V.A. [Zelins'ka, V.O.]

Boundary between Kiev and Kharkov deposits in the middle Dnieper
Valley. Dop.AN URSR. no.10:1095-1098 '58. (MIRA 12:1)

1. Institut geologicheskikh nauk AN USSR. Predstavil akademik
AN USSR V.G.Bondarchuk [V.H.Bondarchuk]
(Dnieper Valley--Soils)

AUTHOR: Zelinskaya, V.A. SOV/21-58-10-16/27

TITLE: On the Problem of the Boundary Between the Kiyev and Khar'kov Deposits in the Middle Dnepr Region (K voprosu o granitse mezhdru kiyevskimi i khar'kovskimi otlozheniyami v rayone Srednego Pridneprov'ya)

PERIODICAL: Dopovidi Akademii nauk Ukrain'skoi RSR, 1958, Nr 10, pp 1095-1098 (USSR)

ABSTRACT: Since the time N.A. Sokolov [Ref 1] proposed the stratification scheme of the Upper Paleogene in the Ukraine, the problem of the boundary between the deposits of the Kiyev and Khar'kov series has been studied by many geologists including M.N. Klyushnikov, N.A. Remizov, V.I. Luchitskiy, V.N. Chirvinskiy and others [Ref 3,4,5,6]. The author studied the conditions of deposition of the loam in the Middle Dnepr region and arrived at the conclusion that it belongs to the Kiyev and not to the Khar'kov cycle of sedimentation. He holds this loam as an analogue of the so-

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SOV/21-58-10-16/27

On the Problem of the Boundary Between the Kiyev and Khar'kov Deposits
in the Middle Dnepr Region

called carbonateless clays of the Kiyev series. There
are: 1 geologic cross section and 12 Soviet references.

ASSOCIATION: Institut geologicheskikh nauk AN UkrSSR (Institute of Geo-
logical Sciences of the AS UkrSSR)

PRESENTED: By Member of the AS UkrSSR, V.G. Bondarchuk

SUBMITTED: April 14, 1958

NOTE: Russian title and Russian names of individuals and insti-
tutions appearing in this article have been used in the
transliteration.

1. Geology--USSR 2. Soil--Deposits 3. Geological time
--Determination

Card 2/2

MOKHNACHEV, I.G.; ZELINSKAYA, V.N.

Simplified method for determining the amino nitrogen in food products.
Izv.vys.ucheb.zav.; pishch. tekhn. no.6:138-140 '61. (MIRA 15:2)

1. Krasnodarskiy nauchno-issledovatel'skiy institut pishchevoy
promyshlennosti, khimiko-bakteriologicheskaya laboratoriya.
(Food—analysis)

AYZENVERG, D.Ye. [Aizenverg, D.IE.]; BARANOVA, N.M.; VEKLIKH, M.F.;
 GOLYAK, L.M. [Holia, L.M.]; GORAK, S.V. [Horak, S.V.];
 DIDKOVSKIY, V.Ye. [Didkovs'kyi, V.IA.]; ZELINSKAYA, V.O.
 [Zelins'ka, V.O.]; ZERNETSKIY, B.F. [Zernets'kyi, B.F.];
 KAPTARENKO-CHERNOUSOVA, O.K.; KRAYEVA, Ye.Ye. [Kraieva, IE.IA.];
 KRASHENINNIKOVA, O.V.; KUTSIBA, A.M.; LAPCHIK, T.Yu.; MAKARENKO,
 D.Ye.; MOLYAVKO, G.I. [Moliavko, H.I.]; MULIKA, A.M.; PASTERNAK,
 S.I.; PERMYAKOV, V.V.; ROMODANOVA, A.P.; ROTMAN, R.N.; SLAVIN, V.I.;
 SOKOLOVSKIY, I.L.; SOROCHAN, O.A.; SYABRYAY, V.T.; TKACHENKO, T.O.;
 SHUL'GA, P.L. [Shul'ha, P.L.]; doktor geol.-mineral.nauk; YAMNICHENKO,
 I.M. [Iamnychenko, I.M.]; BONDARCHUK, V.G. [Bondarchuk, V.H.], akade-
 mik, otv.red.

[Atlas of paleogeographical maps of the Ukrainian and Moldavian
 S.S.R. with lithofacies elements. Scale 1:2,500,000] Atlas paleo-
 geografichnykh kart Ukrain's'koi i Moldavs'koi RSR z elementamy
 litofatsii. Masshtab 1:2,500,000. Sklady D.IE. Aizenverg i dr.
 Za zahal'nym kerivnytstvom V.N.Bondarchuka. Kyiv, 1960. xvi p.,
 78 col.maps. (MIRA 13:12)

1. Akademiya nauk USSR, Kiyev. Institut geologicheskikh nauk.
 2. Institut geologicheskikh nauk AN USSR (for all, except Bondarchuk,
 Pasternak, Slavin).
 3. Instytut geologii korysnykh kopalyn AN URSR
 (for Pasternak).
 4. Moskovskiy gosudarstvennyy universitet im.
 Lomonosova (for Slavin).
- (Ukraine--Paleogeography--Maps) (Moldavia--Paleogeography--Maps)

MAKARENKO, D.Ye. [Makarenko, D.IE.]; ZELINSKAYA, V.O. [Zelins'ka, V.O.]

Conference on Paleogene stratigraphy. Geol. zhur. 23 no.5:
108-110 '63. (MIRA 16:12)

ZELINSKAYA, V.O. [Zelins'ka, V.O.]

Excursion to Paleogene deposits in the Ukraine. Geol.zhur. 21 no.3:
115-116 '61. (MIRA 14:7)

1. Institut geologicheskikh nauk AN USSR.
(Ukraine—Geology, Stratigraphic)

ZELINSKAYA, Z.Ya.

Kiln to determine additional shrinkage in grog and neutral
refractories. Ogneupory 19 no.1:41-42 '54. (MIRA 11:8)
(Refractory materials--Quality control)

ZELINSKAYA, Z.Ya.

Utilizing quartz by-products after concentrating kaolin from
Prosyanyaya deposits. Ogneupory 20 no.7:327-328 '55. (MLRA 9:1)

1.Ogneuporny zavod imeni 1 Maya.
(Quartz) (Kaolin)

FURYGA, S.S., inzh.; ZELINSKAYA, Z.Ya., inzh.

Rapid firing of neutral refractories. Ogneupory 19 no. 3:135-138
'54. (MIRA 11:8)

1. Zavod im. 1 Maya.

(Refractory materials)

DUBINSKIY, A.A., kandidat meditsinskikh nauk; ZELINSKAYA, S.A.; KHADZHAY,
Ya.I., kandidat meditsinskikh nauk

Khellin in coronary disease. Klin.med. 33 no.2:46-50 P '55.
(MLRA 8:5)

1. Iz kafedry fakul'tetskoy terapii (zav. kafedroy prof. S.Ya.
Shteynberg) Khar'kovskogo meditsinskogo instituta i laboratorii
farmakologii Khar'kovskogo nauchno-issledovatel'skogo khimiko-
farmatsevticheskogo instituta.

(CORONARY DISEASE, therapy,
khellin)

(KHELLIN, therapeutic use,
coronary dis.)

Comments K-3546, 13 Jul 55

ZELINSKAYA, T.

"Adsorption Characteristics of Gas Promoted Nickel," Dok. AN, 30, No. 1,
1941.

Nbr., Lab. Catalysis, Leningrad Inst. Chem. Phys., Dept. Chem. Sci., Acad. Sci.,

-1941-.

ZELINSKAYA, V.A. [Zelins'ka, V.O.]

New data on upper Paleogene fauna of the central Dnieper region.

Geol.zhur. 18 no.5:75-78 '58.

(MIRA 12:1)

(Dnieper Valley--Paleobotany)

ZELINSKAYA, Z.Ya.

Vacuum apparatus for the rapid determination of porosity.
Ogneupory 18 no.3:142 '53. (MIRA 11:10)
(Vacuum apparatus) (Refractory materials--Testing)

32569
S/569/61/006/000/004/008
D251/D303

26.2260
AUTHORS:

Filipczak, N., Filipczak, W., and Zeliński, T. (Poland)

TITLE:

A method of mathematical simulation of physical processes without limiting the region of variation of the parameter and its application to the question of automatic regulation of nuclear reactors

SOURCE:

International Federation of Automatic Control. 1st Congress, Moscow, 1960. Trudy. v. 6. Avtomatizatsiya proizvodstvennykh protsessov; khimiya, neftepererabotka, teploenergetika, yadernaya energetika, metallurgiya. Moscow, 1961, 374-383

TEXT: The paper describes a new method for the automatic variation of scale in a continuous action computer at the moment of transition of the parameter beyond the limits of the given region. The method is based on the variation in the determined relative load on a model by means of matched condensers. The principle of the scheme is shown in Fig. 1. The load of the condenser C_i is varied

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D251/D303

A method of mathematical ...

by the momentary inclusion in the circuit of the parallel condenser C_1'' . The load is thus reduced α times where $\alpha = (C_1' + C_1'')/C_1''$. Application of the method to analysis of the triggering process of a hot neutron nuclear reactor is considered. Full kinetic equations and circuit diagrams are given, together with the curves for the triggering process of the BBPC(VVRS) reactor. In conclusion the authors thank J. Latour for his assistance. A discussion followed, in which the following took part: G. Veil, V. Ya. Kogan and W. Filipczak. There are 6 figures and 2 Soviet-bloc references. ✓

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A method of mathematical ...

S/569/61/006/000/004/008
D251/D303

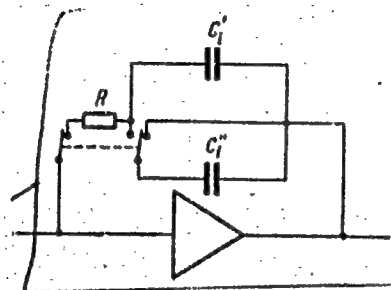


Fig. 1

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ZELINSKI, Z.

KUS, Stanislaw, inzhener; ZELINSKI, Zenon, inzhener

Prestressed reinforced concrete in industrial building construction in
Poland. Bet. i zhel.-bet. no.4:149-150 JI '55. (MIRA 8:9)

1. Byuro issledovaniy i tipovykh proyektov Ministerstva promyshlennosti
Pol'skoy Narodnoy Respubliki. (Poland--Reinforced concrete)

ZELINSKIY, A., tekhnoruk.

On the KZVT-3 sound reproducer. Kinomekhanik no.11:35 N '53. (MLRA 6:11)

1. Kinoteatr im. Lenina, Krivoy Rog.
(Sound--Recording and reproducing)

ZELINSKY, A.

POLAND/Laboratory Equipment. Instruments, Their Theory, Construction, F
Application

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, No 7738

Author : Zelinsky A.

Inst : Not Given

Title : A Simplified Procedure for the Preparation of a Distillation
Column From a Metallic Netting by the Stedmon Technique.

Orig Pub : Przen. chem. 1957, 13, No 2, 108-110

Abstract : A new type of metallic netting for filling laboratory columns
is described. A simple method for the preparation and in-
stallation of the netting in distillation columns is given.

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ZELINSKIY, A. (gorod Krivoy Rog).

On complaints. Kinomekhanik no.5:39 My '53.

(MLRA 6:6)

(Moving-picture projectors)

L 20519-66 EWT(d)/FSS-2/EEC(k)-2 WS-2

ACC NR: AP5014976

SOURCE CODE: PO/0095/65/013/003/0241/0247

AUTHOR: Zielinski, A. — Zelin'skiy, A.

ORG: Department of Theoretical Electronics. A, Technical University, Warsaw
(Katedra elektrotechniki teoretycznej. A, Politechnika)

TITLE: Propagation of modulated signals in a nonlinear long line

SOURCE: Polska Akademia Nauk. Bulletin. Serie des sciences techniques, v. 13,
no. 3, 1965, 241-247

TOPIC TAGS: signal propagation, signal modulation, electronic
signal, signal shape, traveling wave interaction, nonlinear equation

ABSTRACT: Unlike earlier papers, this one deals with the propagation of modulated waves (signals with a narrow spectrum) in nonlinear longline. The Van der Pol method (varying parameters of the principal solution at small nonlinearity of the equation) is applied to basic equation of the long line. Equations provide a full description of the interaction between three waves in a nonlinear line. Results are given in a parametric approximation. These results hold provided the stated condition is fulfilled. They can be taken as valid for the whole line as long as the signal wave and idling wave remain bounded. The relations of equations confirm assumptions as to the damping properties of the line if there is sufficient discrepancy between the phase velocities of the components produced in the line and the components applied at the input. The results derived for a long line, which describe

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L 20519-66

ACC NR: AP5014976

the behavior of a parametric amplifier with running wave, are directly related to
propagation in a nonlinear medium. The author thanks Professor R. V. Khokhlov,
Moscow University, for his valuable advice and discussions. Orig. art. has: 2 for-
mulas. [Based on author's abstract.] [NT]

SUB CODE: 20/ SUBM DATE: none ORIG REF: 004/ OTH REF: 004/

Card 2/2 *LFC*

STOGNIY, I.I.; BOVSUNOVSKIY, A.I.; SHAPOVALOV, P.T., nauchnyy sotrudnik;
KUDARENKO, F.F., nauchnyy sotrudnik; ZELINSKIY, A.A., nauchnyy sotrudnik;
SOROCHINSKAYA, N.F., nauchnyy sotrudnik

Farm management system on sugar beet growing collective farms.
Zemledelie 7 no.12:21-29 D '59. (MIRA 13:3)

1. Predsedatel' kolkhosa imeni Lenina Zhashkovskogo rayona (for Stogniy). 2. Inspektsiya po sel'skomu khozyaystvu Zhashkovskogo rayona (for Bovsunovskiy), 3. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy avekly (for Shapovalov, Kudarenko Zelinskiy, Sorochinskaya).
(Sugar beets) (Collective farms)

ZELINSKIY, A.A.

KUTSAK, I.M. agronom; ZELINSKIY, A.A. [Zelins'kiy, A.A.]; SHAPOVALOV, P.T.;
KLYAVIR, I.Yu.

Over-all mechanization of sugar beet growing. Mekh. sil'. hosp. 9
no.1:18-21 Ja '58. (MIRA 11:2)

1. Kolgosp im. Chapayeva, Zhashkivs'kogo rayonu, Cherkas'koi oblasti
(for Kutsak). 2. Vsesoyuzniy nauchno-doslidniy institut tsukrovikh
buryakiy (for Zelins'kiy, Shapovalov, Klyavir).
(Sugar beets) (Agricultural machinery)

SHAPOVALOV, P.T.; ZELINSKIY, A.A.; KUTSURUBA, N.V.; KUDARENKO, F.F.;
GRIGOR'YEVA, A.I., red.; DEYEVA, V.M., tekhn. red.

[New technology for cultivating monospermous sugar beets] Voz-
delyvanie odnosemiannoi sakharnoi svekly po novoi tekhnologii.
Moskva, Sel'khozizdat, 1962. 94 p. (MIRA 15:12)
(Sugar beets)

KLYAVIR, I.Yu.[Klavir, I.YU.], naukovy pratsivnik,; ZELINSKIY, A.A.
[Zelins'kyi, A.A.], naukovy pratsivnik

Introduce semi-continuous flow-line harvesting of beets. Mekh. sil'.
hosp. 9 no. 8:21-23 Ag.'58. (MIRA 11:8)

1. Vsesoyuzniy naukovy-doslidniy institut tsukrovikh buryakiv.
(Sugar beets--Harvesting)
(Sugar beets--Transportation)

ZELINSKIY, A.M., starshiy inzhener

Manual training instructions for railroad employees. Avtom.,
telem. i svyaz' 4 no. 12:37 D 160. (MIRA 14:1)

1. Smolenskaya distantziya signalizatsii i svyazi Kalininskoy
dorogi.

(Railroads--Employees--Education and training)
(Manual training)

ZELINSKIY, A.N.

In memory of I.I. N. Rerikh. Izv. Vses. geog. ob-va 95 no. 3: 213-221
My-Je '63. (MIRA 16:8)

(Roerich, George Nicholas, 1902-1960)

X
ZELINSKIY, A. V.
AUTHOR:

None given

5-3-16/37

TITLE:

Chronicle of the Geographic Section (Khronika geograficheskoy sekti)

PERIODICAL:

Byulleten' Moskovskogo Obshchestva Ispytateley Prirody, Otdel Geologicheskii, 1957, No 3, pp 162-164 (USSR)

ABSTRACT:

The following reports were delivered at the meeting of the Geographic Section, Moscow **Society** of Naturalists, from 6 February to 22 March 1957: V.V. Reverdatto (from Tomsk) on the "Blanket Glaciation of Central Siberia and Glacial Plant Relics at the Southern Glaciation Border"; V.L. Levin on the "Types of Sands in the Area West of Caspian Sea"; M.P. Zhabrovskaia on the "Problem of the Nile" (This report was published as a separate publication by the "Geografizdat"); S.V. Viktorov on "Botanic Signs of Rock and Soil Bituminosity in the Southern Ustyurt and in North-Eastern Turkmenistan, A.N. Zelinskiy on "Archeological Pamir Expedition", and Ye.I. Olli on "Karatau Karst (Southern Kazakhstan)".

AVAILABLE:

Library of Congress

Card 1/1

ZELINSKIY, A.N.

Need of senile and very old persons of basic medical aid. Vop.
geron. i geriat. 4:172-176 '65. (MIRA 18:5)

1. Institut gerontologii AMN SSSR, Kiyev.

Card 1/2

L 11229-63

ACCESSION NR: AP3000340

frequencies of direct and return channels differ by 400 kc. The number of commands is 16; operating frequency is 98 Mc; subcarrier frequency is 10 kc with a deviation of ± 12 kc; and the modulating frequencies are 73, 93, 113, and 133 cps. Transmitter power is 1 w and receiver sensitivity is 50 microvolts. V-type half-wave dipoles are used as both transmitting and receiving antennas. Orig. art. has: 2 figures.

ASSOCIATION: Kafedra konstruirovaniya i tekhnologii proizvodstva radioapparatov
Khar'kovskogo politekhnicheskogo instituta

OTHER: 000

ch/ww
Card 2/2

ZELINSKIY, B.A.

Notes on the use of the oscillatory index for the evaluation
of arterial tonus in hypertension. Ter. arkh. 35 no.4:44-48
Ap'63 (MIRA 17:1)

1. Iz kafedry fakul'tetskoy terapii (ispolnyayushchiy obyazannosti zaveduyushchego R.I.Mikunis, nauchnyy rukovoditel' prof. B.S. Shklya [deceased]) Vinnitskogo meditsinskogo instituta imeni N.I.Pirogova.

ZELINSKIY, B.A.

Functional state of the arteries in hypertension. Terap. arkh.
34 no.10:20-25 0*62 (MIRA 17:4)

1. Iz kafedry fakul'tetskoy terapii (zav. - dotsent R.I.
Mikunis) Vinnitskogo meditsinskogo instituta; nauchnyy rukovoditel' - prof. B.S. Shklyar [deceased]).

ZELINSKIY, B.A.

Systolic and minute volume of the heart and precapillary patency in hypertension. Terap. arkh. 35 no.9:56-63 S'63
(MIRA 1784)

1. Iz kafedry fakul'tetskoy terapii (ispolnyayushchiy obyazannosti zaveduyushchego - dotsent R.I. Mikunis) Vinnitskogo meditsinskogo instituta.

ZELINSKIY, B.A.

Tonus of the blood vessels of the muscular type in Hypertension. Vrach. delo no.12:61-65 D '63. (MIRA 17:2)

1. Kafedra fakul'tetskoy terapii (zav. - prof. B.S. Shklyar [deceased]) Vinnitskogo meditsinskogo instituta.

ZELINSKIY, B.A.

Some hemodynamic indexes in hypertension patients in the neuro-
genic stage. Vrach.delo no.7:137-138 J1 '60. (MIRA 13:7)

1. Terapevticheskoye otdeleniye Vinnitskoy oblastnoy bol'nitsy
im. N.I. Pirogova (nauchnyy rukovoditel' raboty - prof. B.S.
Shklyar).

(HYPERTENSION) (BLOOD)

ZELINSKIY, B.A.

Determination of the propagation rate of the pulse wave in
hypertension. Vrach. delo no. 7247-51 J1'63. (MIRA 16:10)

1. Kafedra fakul'tetskoy terapii (zav. - prof. B.S. Shklyar
[deceased] Vinnitskogo meditsinskogo instituta.
(HYPERTENSION) (PULSE)

L 18215-63

EWT(d)/FCC(w)/BDS ASD/ESD-3/APGC/IJP(C) Pg-4/Pk-4/Po-4/

Pg-4 GG

ACCESSION NR: AT3001879

S/2906/62/000/000/0106/0113

AUTHORS: Barun, B.V.; Zelinskiy, E.M.; Sergiyenko, V.I. 78

TITLE: Integrating block of a digital integrating machine 16C

SOURCE: Kombinirovannyye vychislitel'nyye mashiny; trudy II Vsesoyuznoy konferentsii-seminara po teorii i metodam matematicheskogo modelirovaniya. Moscow, Izd-vo AN SSSR, 1962, 106-113

TOPIC TAGS: computer, integrator, integrating block, block, integrating, digital, memory, logic, circuitry, increment, counter, summat, adder

ABSTRACT: This theoretical paper discusses the integration operation entailed by the trapezoidal-quadrature formula developed by F.V. Mayorov (elsewhere in the same sbornik) for the digital differential analyzer (DDA) developed at the Institut avtomatiki i telemekhaniki AN SSSR (Institute of Automation and Telemechanics, AS USSR). The integration operation described is broken down into 6 specified steps, including: (1) The algebraic summation of the increments appearing at the integrator input; (2) the accumulation of the running^yfunction in a register Y as the sum of its antecedent value and an increment (with retention of the running value of the function until the next step); (3) the formation of the mean

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L 18215-63

ACCESSION NR: AT3001879

value of the integrand function as a sum of its running value plus $1/2$ the increment; (4) the multiplication of the mean value of the integrand function by the increment of the independent variable; (5) the summation of the values of said products with the number collected in a register S, which has the same number of digits as the register Y, to obtain the value of the integral S_i^* for the given step. The code of that number is then remembered until the next step; (6) the overflow signal of the register S is attributed to the sense of increments of the integral S. The DDA described operates in the binary system of counting with fixed decimal point. The machine employs a ternary method of increment coding, that is, each increment may have the 3 values -1 , 0 , and $+1$. Transmission of the increments is performed by two separate channels. Two memory units are employed to store the increments. A simplified functional scheme is described and depicted graphically. The scheme provides for: (a) integration; (b) introduction of continuous quantities (voltages); (c) introduction of digital quantities (codes); (d) formation and introduction of functions; (e) logic operations; (f) output of the data to the operating organs. The capacitive memory system, the increment counter, and the series-type single-digit summator are described and depicted schematically. The results of the solution of a problem analyzed have confirmed the validity of the construction of the logic schemes of the integrating block and have proved the fundamental possibility of its dependable operation under real conditions. Orig. art. has

Card 2/3

L 18215-63

ACCESSION NR: AT3001879

9 figs. and 5 numbered equations.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 11Apr63

ENCL: 00

SUB CODE: CP, MM

NO REF SOV: 001

OTHER: 000

Card 3/3

ACC NR: AP6025658

SOURCE CODE: UR/0413/66/000/013/0110/0111

INVENTOR: Bleyvas, I. M.; Belinskiy, N. A.; Zelinskiy, E. M.; Dubrovina, S. A.; Sergiyenko, V. I.

ORG: None

TITLE: A device for simultaneously solving equations of motion of charged particles and electric field equations. Class 42, No. 183494

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 110-111

TOPIC TAGS: motion equation, computer component, charged particle, electric field

ABSTRACT: This Author's Certificate introduces: 1. A device for simultaneously solving equations of motion of charged particles and electric field equations. The unit contains an electrolytic bath with conductive elements, a probe head, a digital computer which solves the motion equation of a charged particle and servosystems which move the probe head with respect to two coordinates. Computational speed and accuracy are increased by using a magnetic operational memory with one input connected to the digital computer through a summation unit and a diode which is controlled by pulses from the address formation unit. The second input of the magnetic operational memory is connected to the output of the address formation unit, and the memory out-

Card 1/3

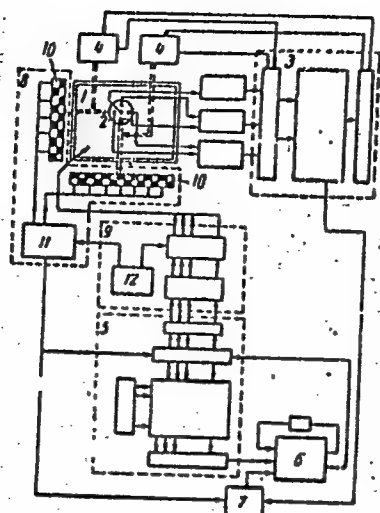
UMC: 681.142.001.572

ACC NR: AP6025658

puts are connected to the input of the summation unit and to the current leads for the conductive elements in the electrolytic bath. 2. A modification of this device in which the instantaneous address of the probe head is compared with that of a memory cell in the magnetic operational memory by making the address formation unit in the form of an electromechanical commutator consisting of two contact tracks located along the coordinate axes with insulated sections, and movable contacts mechanically connected to the probe head. The windings of the address relays are connected between the corresponding commutator segments of the contact tracks. 3. A modification of this device in which currents are automatically fed to the conductive elements by using a step switch in the lead-in unit for synchronizing the operation of this unit with that of the address relays in the address formation unit.

Card 2/3

ACC NR: AP6025658



1--bath; 2--probe head; 3-- computer; 4--servosystems; 5--memory; 6--summation unit;
7--diode; 8--address formation unit; 9--current lead-in unit; 10--electromechanical
commutator tracks; 11--address relays; 12--step switch

SUB CODE: 09/ SUBM DATE: 06Apr63

Card 3/3

ZELINSKIY, G., kand.tekhn.nauk; KOMYSHNIK, L., inzh.; YUKISH, A., inzh.

The "TSelinnaya" gas recirculating grain dryer. Muk.-elev. prom.
28 no.12:11-12 D '62. (MIRA 16:1)

1: Kazakhskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta zerna i produktov yego pererabotki (for Zelinskiy,
Komyshnik). 2. Ministerstvo proizvodstva i zagotovok sel'sko-
khozyaystvennykh produktov Kazakhskoy SSR (for Yukish).
(Grain-Drying)

PLATONOV, P., kand.tekhn.nauk;ZHIDKO, V., kand.tekhn.nauk;ZELINSKIY, G.,
kand.tekhn.nauk;LEBADINSKIY, V., kand.tekhn.nauk

Automation of column-type grain dryers. Muk.-elev. prom. 25
no.10:13-14 0 '59. (MIRA 13:3)

1. Odesskiy tekhnologicheskii institut im. I.V. Stalina.
(Grain--Drying) (Automation)

ZELINSKIY, G.S. [Zelins'kiy, H.S.]; PLATONOV, P.N. [Platonov, P.M.]

Aerodynamics of loose medium layer [with summary in English].

Dop. AN URSS no.2:178-182 '58.

(MIRA 11:5)

1.Odes'kiy tekhnologichniy institut. Predstavleno akademikom AN
USSR G.I. Sukhomelom [H.I. Sukhomelom].
(Aerodynamics)

GORBIS, Z.R.; ZHIDKO, V.I.; ZELINSKIY, G.S.

Studying the aerodynamics of grain in a fluidized bed. Izv.
vys.ucheb.zav.; pishch.tekh. no.2:110-115 '59. (MIRA 12:8)

1. Odesskiy tekhnologicheskii institut im. I.V.Stalina.
(Grain) (Fluidization)

YAKOVENKO, V.A.; ZELINSKIY, G.S.; LEBEDINSKIY, V.G.

Irregularities in the heating and drying of ear corn at different levels in the pile. Izv.vys.ucheb.zav.; pishch.tekh. no.1:6-12 '59. (MIRA 12:6)

1. Odesskiy tekhnologicheskii institut imeni I.V.Stalina, kafedra elevatorno-skladskogo khozyaystva i khraneniya zerna.
(Corn(Maize)--Drying)

AUTHORS: Zelinskiy, G.S. and Platonov, P.N. SOV/21-58-2-15/28

TITLE: Aerodynamics of a Layer of a Loose Medium (Aerodinamika sloya sypuchey sredy)

PERIODICAL: Dopovidi Akademii nauk Ukrain's'koi RSR, 1958, Nr 2, pp 178-182 (USSR)

ABSTRACT: Theoretical and experimental investigations of the uniform rectilinear filtration of air in a loose medium made it possible to derive a formula for determination of the pressure loss of the filtration stream as a function of individual parameters in a comparatively wide range. By analogy with hydraulics the general formula of the aerodynamical resistance of a loose medium layer is assumed in the following form:

$$\Delta P = \lambda \frac{l}{r} \cdot \frac{\rho u^2}{2}$$

Reynold's number was taken as a criterion of similarity of the air motion

$$Re = \frac{ur}{\nu}$$

Expressing the radius of the particles r and the air velocity u by the coefficient of the packing density of the loose medium k , the coefficient of the shape of the particles ω , the equivalent diameter of the particles d_{eq} and replacing the

Card 1/2

Aerodynamics of a Layer of a Loose Medium

SOV/21-58-2-15/28

velocity u by the velocity of air relative to the entire cross section of the medium, the following formulae are derived:

$$\Delta P = \lambda \frac{f}{d_{3K}} \cdot \frac{6WK}{(1-K)^3} \frac{\rho u^2}{2}; \quad Re = \frac{u d_{3K}}{\nu} \cdot \frac{1}{6WK}$$

The value of λ can be expressed on the basis of experimental data as follows:

$$\lambda = \frac{9}{Re} + \frac{1}{Re^{0.15}}$$

the last term of which can be neglected in the case of laminar filtration. There are: 1 diagram, 2 graphs and 6 Soviet references.

ASSOCIATION:

PRESENTED:

SUBMITTED:

NOTE:

Odesskiy tekhnologicheskii institut (Odessa Technological Institute)

By Member of the AS UkrSSR, G.I. Sukhomel

May 6, 1957

Russian title and Russian names of individuals and institutions appearing in this article have been used in the transliteration

Card 2/2

ZELINSKIY, I.

I fully agree. Okhr. truda i sots. strakh. 6 no.7:22 JI '63.
(MIRA 16:10)

IVANOV, B.; ZELINSKIY, I.; TURUTIN, I.; DEM'YANENKO, I.; FILIPPOV, A.
(Petrovavlovsk, Kazakhskaya SSR); ASLANLY, Musa (Baku);
YATSENKO, S.; TEREKHOVA, R.

Letters to the editors. Sov.profsoiuzy 16 no.15:38-41 Ag
'60. (MIRA 13:8)

1. Predsedatel' mestnogo komiteta vagonnogo depo Riga Tovarnaya
(for Ivanov). 2. Tekhnicheskii inspektor Dorozhnogo komiteta
profsoyuza rabotnikov-zheleznodorozhnogo transporta Skovorodinskogo
otdeleniya Zabaykal'skoy magistrali (for Zelinskiy). 3. Redaktor
mnogotirazhnoy gazety "Zhilstroyevets" g. Makeyevka (for
Turutin). 4. Instruktor Ukrainского respublikanskogo komiteta
profsoyuza rabochikh i sluzhashchikh sel'skogo khozyaystva i
zagotovok (for Dem'yanenko).
(Trade unions) (Labor and laboring classes)

Zelinskiy, I. M.

GIVERTS, M.S., inzhener.; ZELINSKIY, I.M., inzhener.

New technology of making reinforced concrete bridge spans.

Transp. stroi. 5 no. 10:24 D '55.

(MLRA 9:3)

(Bridges, Concrete)

IPATOV, V.; ZELINSKIY, K.

(Reviewers)

"In the heart of living nature." IU. Dolgushin. Reviewed by V.
Ipatov, K. Zelinskii. Bot. zhur. 39 no. 1: 129-121 Ja-F '54.

(MLRA 7:3)

(Origin of species) (Dolgushin, IUrii)

ZELINSKIY, KORNELIY LYUTSIANOVICH

3N/5
917.887
.D9Z5

Dzhambul; kritiko-biograficheskiy ocherk (Dzhambul; a critical-
biographical sketch) Moskva, Sovetskiy Pisatel', 1955.
163 p. port.

AVS

ZELINSKIY, L.

25223

ZELINSKIY, L. Opravdanie voennykh prestupnikov v nyurnberge. [Protsessy Direktorov I Farbendind I Kontsernov Kruppa I Flika] Pis'mo iz yerline. Novoe vremya, 1948, No. 32, S. 27-31.

SO: Letopis'Zhurnal Statey, No. 30, Moscow, 1948

ZELI'SKIY, L. OPRAVDA'IE
25223

Voennykh Frestrupnikov V
Nyurnberge. Protsessy Direktorov Ig Farbenindi I Kontsernov Kruppa I Flika
Pis'mo Iz Yerlina. Novoe Vremya, 1948,
No. 32, S. 27-31

SO: LETOPIS NO. 30, 1948

ZELINSKIY, M. A.

AID P - 336

Subject : USSR/Mining
Card : 1/1
Author : Polyanskiy, A. P.
Title : Construction defects of a tightening arrangement packer
Periodical : Neft. Khoz., v. 32, #5, 48, My 1954
Abstract : The author remarks on the comments of B. S. Tolmachev published in the Neft. Khoz., No. 4, 1953 concerning the article by M. A. Zelinskiy and A. N. Shermatov "For a Rational Construction of Equipment for the Bottom and Mouth of Gas Wells", published in the Neft. Khoz., No. 7, 1952. The author considers that the packer, shown on fig. 5, of the reviewed article, has many defects and is unsatisfactory in service.

Institution : None
Submitted : No date

YAKOVENKO, V.A.; ZELINSKIY, G.S.; LEBEDINSKIY, V.G.

Conditions for drying hybrid ear corn. Izv.vys.ucheb.zav.; pishch.
tekh.no.6:25-31 '58. (MIRA 12:5)

1. Odesskiy tekhnologicheskii institut imeni I.V.Stalina, Kafedra
elevatorno-skladskogo khozyaystva i khraneniya zerna.
(Corn (Maize)--Drying)

ZELINSKIY, G.S., Cand Tech Sci -- (diss) "Study of
the ^{hydrodynamic} resistance of a layer of grain."
Odessa, 1958, 14 pp (Min of Higher Education UkSSR.
Odessa Technologic Inst im I.V.Stalin) 100 copies
(KL, 28-58, 106)

- 36 -

ZELINSKIY, Koroliy.

Witness and teacher. Sov. foto 19 no.2:9 F '59.
(Luknitskii, Pavel Nikolaevich)

(MIRA 12:3)

ZELINSKIY, K., Cand Bio Sci--(diss) "Certain peculiarities of the
physiology of the development of ^{chickens} ~~hen~~ of various types of early ~~maturing~~ ^{maturity}."
Len, 1958. 19 pp (Acad Sci USSR. Inst of Physiology in I.P.Pavlov),
170 copies (KL,45-58, 145)

- 52 -

YEVDOKIMOV, I.I.; ALEKSNYEV, V.D.; ASHIKHMIN, A.K.; BAYEV, N.V.; BEGLAR'YAN, P.A.; BYCHKOV, I.A.; VESLOVA, Ye.T.; VYZHEKHOVSKAYA, M.F.; GURETSKIY, S.A.; DEMIDOV, I.M.; YESIPOV, Ye.P.; ZHUKOV, V.D.; ZELINSKIY, M.G.; ZOL'NIKOV, F.T.; ZOLOTOVA, L.I.; KIVIN, A.N.; KOMARNITSKIY, Yu.A.; KONSTANTINOV, A.N.; KUL'CHITSKAYA, A.K.; MAKSIMENKO, I.I.; MELENT'YEV, A.A.; MOROZOV, I.G.; MURZINOV, M.I.; OZEMBLOVSKIY, Ch.S.; OSTRYAKOV, K.I.; PANINA, A.A.; PAVLOVSKIY, V.V.; PERMINOV, A.S.; PERSHIN, B.F.; PRONIN, S.F.; PSHENNYI, A.I.; POKROVSKIY, M.I.; RASPONOMAREV, Ye.A.; SEMIN, I.N.; SKLYAROV, Yu.N.; TIBABSHEV, A.I.; FARBEROV, Ya.D.; FEDOROV, G.P.; SHUL'GIN, Ya.S.; YAKIMOV, I.A.; VERINA, G.P., tekhn.red.

[Labor feats of railway workers; stories about the innovators]
Trudovye podvigi zheleznodorozhnikov; rasskazy o novatorakh. Moskva,
Gos.transp.zhel-dor.izd-vo, 1959. 267 p. (MIRA 12:9)
(Railroads) (Socialist competition)

67761

18.7500

SOV/126-8-5-14/29

AUTHORS: Zelinskiy, M.S., Noskov, B.M., Pavlov, P.V., and
Shitova, E.V.

TITLE: Influence of Vanadium Additions on the Self-Diffusion
of Iron

PERIODICAL: Fizika metallov i metallovedeniye, 1959, Vol 8, Nr 5,
pp 725-730 (USSR)

ABSTRACT: In contrast to the effect of many other transition
elements, vanadium has been found to give a weaker
atomic bonding than occurs in pure iron (Refs 6, 7).
Since for other metals results of diffusion and X-ray
investigations agree, the authors decided to study the
self-diffusion of iron with respect to vanadium content.
Although this had already been studied, work by Sanadze
and Tsivtsivadze (Ref 8) has thrown doubt on some
previous results (Refs 4, 5, 9). The present authors
used three Fe-V (0.48, 1.01 and 2.04% V) and two
Fe-V-C (0.096, 2.46% V and 0.820, 0.25% C, respectively)
alloys (compositions shown in Table 1).

Card
1/3

5 x 8 x 25 mm plane parallel specimens were subjected
to homogenizing annealing at 1100 °C for 20 hours. A
thickness of about 0.005 mm of radioactive Fe⁵⁹ was
electrodeposited on one face. Pairs of specimens with ✓

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SOV/126-8-5-14/29

Influence of Vanadium Additions on the Self-Diffusion of Iron

their active faces in contact were subjected to isothermal diffusion annealing for 4-200 hours in a quartz tube evacuated to 10^{-3} mm Hg. Temperature (900-1300 and 1100-1340 for the Fe-V and Fe-V-C alloys, respectively) was controlled to ± 5 °C. After annealing specimens were rapidly quenched and the self-diffusion coefficients determined by removing layers and measuring the integral residual gamma-activity of the remainder of the specimen (Ref 10), with precautions to avoid end effects. Two to four independent determinations were made at each temperature. From the break at 1100 °C on the curve of log D vs inverse of absolute temperature it was deduced that below this temperature inter-crystallite diffusion plays a big part. Results above 1100 °C referred to uniform diffusion and were used in calculating the coefficients: these and other diffusion parameters are shown in Table 2. In Table 3 the corresponding data for inter-crystallite diffusion calculated by Fisher's formula (Ref 11) are given for the Fe-V alloys. The linear relation between the logarithm of the uniform diffusion coefficient and

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2/3

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SOV/126-8-5-14/29

Influence of Vanadium Additions on the Self-Diffusion of Iron
the activation energy for these alloys is shown in
Fig 2; in Fig 3 the activation energy is shown as a
function of the vanadium concentration, showing that
the activation energy decreases linearly with
increasing vanadium concentration. The authors
discuss this and other properties of vanadium in
relation to those of similar metals.
There are 3 figures, 3 tables and 15 references, of
which 13 are Soviet, 1 is English and 1 is French.

ASSOCIATION: Issledovatel'skiy fiziko-tekhnicheskiy institut
g. Gor'kiy
(Physico-Technical Research Institute, Gor'kiy)

Card 3/3

SUBMITTED: May 29, 1959

ZELINSKIY, N. D.

DECEASED 1953

Chemistry

see ILC

ZELINSKIY, N.D., akademik

Problem of protein. Khim.belka no.1:7-9 '61.
(Proteins)

(MIRA 15:1)

ZELINSKIY, S.F., fel'dsher (Frunze).

Poisoning by water hemlock (*Cicuta virosa*) and first aid to the
victim. Fel'd i akush 24 no.2:38-39 Fe '59. (MIRA 2:3)
(WATER HEMLOCK--TOXICOLOGY)

ZELINSKIY, S.P.

Further studies of adrenocortical function in schizophrenia and
maniac-depressive psychoses [with summary in French]. Zhur.nevr.
i psikh. 58 no.1:46-54 '58. (MIRA 11:2)

1. Otdel psikiatrii i patologii vysshey nervnoy deyatel'nosti
(zav. - prof. V.P.Protopopov [deceased]) Instituta fiziologii imeni
A.A.Bogomol'tsa AN USSR.

(SCHIZOPHRENIA, urine in,
17-ketosteroids (Rus))

(PSYCHOSES, MANICDEPRESSIVE, urine in,
name)

(17-KETOSTEROIDS, in urine,
in schizophrenia & maniac-depressive psychoses (Rus))

ZELINS'KIY, S.P.

POLISHCHUK, I.A.; ZELINS'KIY, S.P.

Metabolic processes in manic-depressive psychoses. Medych.zhur.
17:408-417 '47. (MIRA 11:1)

1. Z viddilu psikhiiatrii (zav. - diysniy chlen AN URSS V.P.
Protopopov) Institutu klinichnoi fiziologii AN URSS (direktor -
akad. O.O.Bogomolets')
(PSYCHOSES) (METABOLISM)

ZELINSKIY, S.P. [Zelins'kyi, S.P.]; PATORZHINSKAYA, A.M. [Patorzhyns'ka, A.M.]

Effect of aminazine and caffeine on the function of the adrenal cortex in schizophrenics. Fiziol. zhur. [Ukr.] 9 no.5: 651-659 S-O'63 (MIRA 17:4)

1. Otdel psikhiatrii i patologii vysshey nervnoy deyatel'nosti Instituta fiziologii imeni A.A. Bogomol'tsa AN UkrSSR i Kiyevskaya klinicheskaya psikhonevrologicheskaya bol'nitsa imeni I.P. Pavlova.

EXCERPTA MEDICA Sec 8 Vol 12/4 NEUROLOGY Apr 59

2001. FURTHER STUDIES ON THE FUNCTION OF THE ADRENAL CORTEX
IN SCHIZOPHRENICS AND IN PATIENTS WITH MANIC-DEPRESSIVE
PSYCHOSIS (Russian text) - Zelinskiy S. P. - Zh. NEVROPAT. I
PSIKHIAT. 1958, 58/1 (46-54) Graphs 5 Tables 6

The results are reported of a study of 35 schizophrenic patients, in whom the
disease had been present for various lengths of time, and of 23 cases of manic-
depressive psychosis. The concentration of 17-ketosteroids in the urine served as

an index of the functional condition of the adrenal cortex. Most of these patients had been under observation for 1-1.5 yr. It was found that the excretion of 17-ketosteroids was decreased in patients with the catatonic form of schizophrenia. This excretion was also diminished in cases with hallucinations and paranoid symptoms in whom the disease ran a prolonged, unfavourable course. This group of patients had, in the early stage of their affection, a normal or even slightly increased urinary level of 17-ketosteroids. The functional decrease of the adrenal cortex in schizophrenics is mostly the result of disturbances of its regulation by the upper centres of the nervous system. In patients with manic-depressive psychosis the 17-ketosteroids in the urine showed an increase during the acute attack periods, especially at the onset, and in the sympathico-tonic syndrome. When patients with manic-depressive psychosis were treated with aminazine and pararenal adrenals, this therapy had a very pronounced depressive effect on the function of the adrenals. In manic-depressive psychosis, hyperfunction of the adrenal cortex may be correlated with a state of latent excitation in the thalamo-hypothalamic region. This excitation influences the adrenals via the hypophysis.

ZELINSKIY, S.P.

POLISHCHUK, I.A., st. nauk.spivrobitnik; ZELINS'KIY, S.P., mol.nauk.
spivrobitnik

Using V.P.Filatov's biogenic stimulants in the treatment of schizo-
phrenia and epilepsy. Medych.zhur. 17:418-427 '47. (MIRA 11:1)

1. Z viddilu psikhiiatrii (zav. viddilu - diysniy chlen AN URSR -
V.P.Protopopov) Institutu klinichnoi fiziologii AN URSR (direktor -
akad. O.O.Bogomolets')

(TISSUE EXTRACTS) (SCHIZOPHRENIA) (EPILEPSY)

Thiamine, riboflavin, and nicotinic acid metabolism in schizophrenic patients. S. P. Zelin'skii (O. O. Bojomolets Inst. Physiol., Kiev). *Fiziol. Zhur., Akad. Nauk Ukr. R.S.R.* 1, No. 6, 37-44 (Russian summary, 44-6) (1955).—Thiamine (I), riboflavin (II), and nicotinic acid (III) metabolism were studied in 29 schizophrenic patients during and after treatment with the group B vitamins. As metabolic indices were used the content of I, II, and III in the blood and in 24-hr. urine specimens, as well as the increase in the blood of pyrophosphothiamine (IV). The intensity of the oxidative processes was judged from the content in the blood and in the urine of bisulfite binding substances, of the urine urea and of the O depletion index in the urine. Insulinotolism in schizophrenic patients is characterized by a low blood content of IV and especially a low urinary elimination of IV. I therapy raises the blood level and occasionally the content of IV. The content of II in the blood and urine of schizophrenic patients is reduced, and in the process of II-therapy it is freely eliminated via the urine. In the process of therapy with II its concn. in the blood may attain a normal level in some patients but it stays below that level in the majority of patients. The blood content of III in schizophrenic patients retains its normal level. However, the blood level of diphospho- and triphosphopyridine nucleotides persists regardless of intensive administration of III. This points to the fact that in schizophrenic patients there is a weakening in the phosphorylation processes. Therapy of schizophrenic patients with I, II, and III enhances oxidative processes in the majority of patients. At the termination of the vita-

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ZELINS'KIY, S.P.

Thiamine, riboflavin, and nicotinic acid metabolism in schizophrenia.
Fiziol.zhur. (Ukr.) 1 no.5:37-45 S-0 '55. (MIRA 9:11)

1. Institut fiziologii im. O.O.Bogomol'tsya Akademii nauk URSS,
viddil psykhiatrii i patologii vishchoi nervovoi diyal'nosti.

(SCHIZOPHRENIA, metabolism in,
nicotinic acid & vitamins B₁ & B₂)

(NICOTINIC ACID, metabolism,
in schizophrenia)

(VITAMIN B₁, metabolism,
in schizophrenia)

(VITAMIN B₂, metabolism,

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(MLRA 9:11)

1. Otdel psikhiatrii i patologii vysshey nervnoy deyatel'nosti
(zav. - prof. V.P.Protopopov) Instituta fiziologii imeni A.A.Bogomol'-
tsa AN USSR, Kiev.

(SCHIZOPHRENIA, urine in,
17-ketosteroids (Rus))

(PSYCHOSES, urine in,
same)

(STEROIDS, in urine,
17-keto, in schizophrenia & other psychoses (Rus))

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1. Institut fiziologii imeni akademika O.O.Bogomol'tsya Akademii
nauk URSR, Viddil psikhiatrii i patologii vishchoi nervovoi
diyal'nosti.

(BRAIN)

(SCHIZOPHRENIA)

(SERUM)

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ZELINSKIY, V.G., inzhener; RATNER, A.V., kandidat tekhnicheskikh nauk.

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